



University of California

Lawrence Livermore National Laboratory

Procurement & Materiel

May 28, 2004

Company Name

Attention: Representative Name

Address

City, State & Zip

Subject: **Request For Proposal (RFP) Number B541520**
Proposal Due June 16, 2004

The University of California Lawrence Livermore National Laboratory (hereinafter called "University") requests a proposal for the development and engineering of technologies for Chromium-based scalable visualization for the Advanced Simulation and Computing (ASC) Visual Interactive Environment for Weapons Simulation (VIEWS) project in accordance with this Request for Proposal (RFP) and the enclosed sample Subcontract. Chromium is an open source, distributed rendering application programming interface (API) for interactive rendering on large clusters. Proposals shall be valid for at least 60 days after the due date.

Acceptance of late proposals will be at the sole discretion of the University. The University reserves the right to reject any and all proposals, to waive any minor irregularities in any proposal, or to cancel this RFP at any time prior to award without cost to the University. This RFP does not include provisions for the direct reimbursement of proposal preparation costs.

The University Procurement Representative is Barbara Larson and may be reached by telephone at (925) 422-0607, by fax at (925) 423-8019 or by e-mail at larson4@llnl.gov.

The University of California manages the Lawrence Livermore National Laboratory and conducts Laboratory business under Laboratory Procurement Policies and Procedures consistent with the Prime Contract between the University and the United States Government, represented by the Department of Energy National Nuclear Security Administration (hereinafter called "DOE/NNSA").

FUNDING ESTIMATE AND AVAILABILITY

The University estimates that up to \$1,000,000 will be available to perform the work. Funding to perform all of the work described in the statement of work is not presently available. The University anticipates that funding will be available in the future to permit the successful Offeror to perform continuously until completion of the work.

NAICS CODE AND SIZE STANDARD

The North American Industry Classification System (NAICS) Code for this acquisition is **541511, Custom Computer Programming Services**. The corresponding small business size standard for this acquisition is annual receipts of \$21 Million or less.

The Offeror shall base its Small Business Program Representations in the attached Representations and Certifications form on this small business size standard. Annual receipts are to be based on the

average annual gross revenue for the past three fiscal years. Refer to Subpart 19.1 - Size Standards of the Federal Acquisition Regulation (FAR) for information on calculating your annual average gross revenue.

PROPOSAL CONTENTS

Performance Features, Desired Characteristics, Offeror Attributes and Affordability

The Offeror's proposal should identify and discuss the performance features, desired characteristics and Offeror attributes that will be important to the Offeror's successful performance and the attainment of the University's objectives. The University has identified performance features, desired characteristics and Offeror attributes that should be discussed in the proposal. The Offeror may identify and discuss other features and Offeror attributes it believes may be of value to the University. If the University agrees, consideration may be given to them in the evaluation process. In all cases, the University will assess the value of each proposal as submitted.

Performance Features

Performance features are considered relevant to the planned use of the products or services that will be delivered, the method of performance under the contract, or both.

The Offeror's proposal shall discuss and demonstrate its ability to meet or exceed each of the performance features identified in Section 2 Performance Features of the Statement of Work or otherwise indicate that it is not proposing on a performance feature.

Desired Characteristics

The Design Characteristics are highly desirable elements that the University believes are important to successful performance of the proposed subcontract and the University's objectives.

The Offeror's proposal shall discuss and demonstrate its ability to meet or exceed each of the desired features identified in Section 3 Design Characteristics of the Statement of Work or indicate that it is not otherwise proposing on a desired feature.

Offeror Attributes

The Offeror shall provide a written summary of its qualifications and capabilities for performing the work, including how they would be used to develop the key commercial technologies proposed. Descriptions of facilities, personnel and other available resources are requested as well as a discussion of how they would be used.

The Offeror shall describe projects of similar scope and complexity as this project that the Offeror has completed recently. These may include public and private contracts. Include technical and business contact points by name, title, address, telephone number and, if available, e-mail address. Offeror is encouraged to include a self-assessment of its performance on these projects including what went well and what did not. Offeror may discuss the latter in the context of a lessons learned scenario. The Offeror may also identify, and provide resumes for, key personnel who will perform the work.

Affordability

The University's assessment of the price relative to the perceived value offered in the proposal.

Price and Schedule

The proposal shall include a total firm fixed price for the work and a milestone payment schedule. The University requires completion by January 1, 2006. An alternate completion date may be proposed that may be subject to negotiation prior to award.

Small Business Subcontracting Plan

Unless the Offeror is a small business, or the total value of the offer is less than \$500,000, the successful Offeror must provide a Small Business Subcontracting Plan, which includes anticipated total subcontracting amount and the percentage goals and amounts for all of the various small business categories. Refer to the *Small Business Subcontracting Plan* clause referenced in the GENERAL PROVISIONS and the attached Model Small Business Subcontracting Plan for additional information. The approved plan will be made a part of any resulting Subcontract. Failure to submit an acceptable subcontracting plan shall make the Offeror ineligible for award of a subcontract.

DUNS Number

The Offeror shall provide its D-U-N-S number as part of the proposal.

Acceptance of Terms & Conditions

Submission of a proposal shall indicate the Offeror's willingness to accept the terms and conditions of the sample Subcontract and its attachments unless specific exceptions are taken. These terms and conditions have been approved by the DOE/NNSA. Changing them may be time consuming. Failure to accept the terms and conditions may result in significant, unacceptable delays in award of a Subcontract which could cause the University to reject your proposal.

EVALUATION AND SELECTION

Evaluation Factors

The University will evaluate the proposal for performance features, desired characteristics, Offeror attributes, and price.

Feasibility

- The likelihood that the approach will work as claimed.
- The extent to which on Offeror's design and application of the scalable rendering infrastructure approach represents a feasible solution to the requirements of the Statement of Work.
- The availability of component(s) proposed by the Offeror.
- The likelihood that the work can be accomplished within the time frame proposed.
- The completeness, realism, and likelihood of the primary obstacles to the proposed approach as noted by each Offeror. (Most significant technical risks or likely failures.)

Applicability

- The extent to which the system or technology is modular, extensible, and scalable.
- The Offeror's proposed upgrade paths and system support.

- The stability and dependability of the system configuration and the redundancy of data access, rendering engines, and graphical procedures as they contribute to fault-tolerant operation.
- The proposed technology's ability to be seamlessly integrated into upcoming computational environments.

Capability

- The relevance and adequacy of the Offeror's past experience on similar projects.
- The current roadmap status, maturity, and scope of the Offeror's existing or proposed product.
- The current level of existing technology development insofar as it will be used as part of the final system configuration.
- The Offeror's proven capabilities in this field of endeavor.
- If work is subcontracted, the extent to which the assignment of work scope is appropriate, and the qualifications of each prospective lower-tier subcontractor to do the work.

Affordability (Proposed Price)

- The realism of the proposed price compared to the approach the firm intends to employ.
- The reasonableness of the total proposed price in terms of the perceived value and the University's budget, and relative to the pricing of other proposals.

Basis for Selection

The University intends to select those Offeror whose proposal contains the combination of price, performance features, desired characteristics and Offeror attributes offering the best overall value to the University. The University will determine the best overall value by comparing differences in desired characteristics and Offeror attributes offered with differences in price, striking the most advantageous balance between expected performance and the overall price to the University. Offerors must, therefore, be persuasive in describing the value of their proposed desired features and Offeror attributes in enhancing the likelihood of successful performance or otherwise best achieving the University's objectives. The University may select the Offeror whose proposal is considered to offer the best overall value compared to proposals with either higher or lower prices. The University selection may be made on the basis of the initial proposal or the University may elect to negotiate with any or all Offerors.

PROPOSAL INSTRUCTIONS

Offerors' Questions

The University will respond to questions submitted by e-mail to the University Procurement Representative on or before June 14, 2004. Questions submitted after this date may not be answered. Answers to questions that are germane to the interpretation of the University's requirements will be issued to all Offerors in writing. Please direct questions to the University Procurement Representative, Barbara Larson, by e-mail at larson4@llnl.gov.

Submittal of Proposals

Proposals are to be submitted in an electronic format, either MS Word ".doc" or Adobe ".pdf", and sent by e-mail or delivered on a CD. If encryption of electronic files is desired, please use PGP software.

The Offeror shall deliver or mail an original proposal and a CD to one of the following addresses.

Address for Commercial Courier

(Not For Hand Delivery):

University of California
Lawrence Livermore National Laboratory
Attention: Barbara Larson
Mail Code L-550
RFP: B541520
7000 East Avenue
Livermore, CA 94550

Address for Mailing:

University of California
Lawrence Livermore National Laboratory
Attention: Barbara Larson
Mail Code L-550
RFP: B541520
P.O. Box 808
Livermore, CA 94551

Address for E-mail

If e-mail is used to send the electronic files, the Offeror shall send e-mail to larson4@llnl.gov

Deadline for Submitting Proposals

Proposals are due to the University Procurement Representative on June 16, 2004, not later than 4:00 PM, Pacific Time. Facsimile proposals are not acceptable.

Proprietary Data

The University prefers not to receive proprietary data. If proprietary data is included in a proposal, it must be marked "Proprietary." The University will exercise its best effort to avoid disclosure of proprietary data.

ATTACHMENTS

The following attachments are provided and need not be returned with the proposal:

Sample Subcontract
Model Small Business Subcontracting Plan

The Offeror shall complete the following attachment and submit it with the proposal:

Representations and Certifications

Sincerely,

Barbara Larson
Sr. Contract Administrator

Attachments: As Noted